

said disc transporter being operable to return said disc to said magazine after said disc has been played with said grooved opposing arms being operable to place said disc back onto the magazine and to move substantially vertically downward to release said disc from within the grooves.

2. The apparatus of claim 1, wherein said discs are from a group consisting of compact discs, laser discs, mini-discs and CD-ROM discs.

3. The apparatus of claim 1, wherein said magazine comprises a plurality of grooves in which discs are placed.

4. The apparatus of claim 1, including a microcomputer to determine the location of a selected disc on said magazine and return a disc to a predetermined location on said magazine.

5. The apparatus of claim 1, including a step counter to continuously determine the location of said disc transporter.

6. The apparatus of claim 1, including an optical counter to continuously determine the location of said disc transporter.

7. The apparatus of claim 1, including a step counter and an optical counter to continuously determine the location of said disc transporter.

8. Apparatus for storing and playing optical discs, comprising:

- an optical disc player;
- a magazine having a plurality of grooves for holding a number of discs by said rim each in a substantially vertical position;
- a disc transporter that is movable along said magazine;
- said disc transporter having a pair of grooved opposing arms which extend downwardly;
- said grooved opposing arms spaced from each other sufficiently to provide an open space within said arms that allows said discs to pass through an open space as said transporter moves along said magazine;
- said transporter being operable (a) to move to a low position below a mid-portion of the discs to be engaged, (b) while in the low position to move along said magazine to a selected disc to be played, (c) and then move substantially vertically upward to seat and retain said selected disc within the grooves, whereby said selected disc is seated in the grooves in said opposing arms of said disc transporter by gravity;
- said disc transporter being operable to lift said selected gravity-seated disc above said magazine and to move said disc to said optical disc player for play; and
- said disc transporter being operable to return said disc to said magazine after said disc has been played with said grooved opposing arms being operable to place said disc back onto the magazine and to move substantially vertically downward to release said disc from within the grooves;
- said magazine being fixed in position relative to said optical disc player during movement of said disc transporter.

9. The apparatus of claim 8, wherein said discs are from a group consisting of compact discs, laser discs, mini-discs and CD-ROM discs.

10. The apparatus of claim 8, including a microcomputer to determine the location of a selected disc on said magazine and return a disc to a predetermined location on said magazine.

11. The apparatus of claim 8, including a step counter to determine the location of said disc transporter.

12. The apparatus of claim 8, including an optical counter to determine the location of said disc transporter.

13. The apparatus of claim 8, including a step counter and an optical counter to determine the location of said disc transporter.

14. Apparatus for storing and playing optical discs, comprising:

- an optical disc player;
- a magazine for holding a plurality of discs each in a substantially vertical position;
- a step counter;
- an optical counter;
- a disc transporter that is movable along said magazine;
- said disc transporter having a pair of grooved opposing arms which extend downwardly;
- said grooved opposing arms spaced from each other sufficiently to provide an open space within said arms that allows said discs to pass through an open space as said transporter moves along magazine;
- said transporter being operable (a) to move to a low position below a mid-position portion of the discs to be engaged, (b) while in the low position to move along said magazine to a selected disc to be played, (c) and then move substantially vertically upward to seat and retain said selected disc within the grooves, whereby said selected disc is seated in the grooves in said opposing arms of said disc transporter by gravity;
- said step counter and optical counter cooperating to determine the exact location of said disc transporter such that said disc is retrieved from a predetermined position on said magazine prior to play;
- said disc transporter being operable to lift said selected gravity-seated disc above said magazine and to move said disc to said optical disc player for play; and
- said disc transporter being operable to return said disc to said magazine after said disc has been played with said grooved opposing arms being operable to place said disc back onto the magazine and to move substantially vertically downward to release said disc from within the grooves;
- said step counter and optical counter cooperating to position said disc on said magazine at said predetermined position after said disc has been played.

15. The apparatus of claim 14, wherein said discs are from a group consisting of compact discs, laser discs, mini-discs and CD-ROM discs.

16. The apparatus of claim 14, wherein said magazine defines a plurality of grooves into which discs are placed.

17. The apparatus of claim 14, including a microcomputer to determine the location of a disc on said magazine and subsequently return a disc to said location.

18. A method of storing and playing an optical disc including the steps of:

- providing an optical disc player;
- providing a magazine for storing a plurality of discs each in a substantially vertical position;
- providing a disc transporter that is movable along said magazine and having a pair of grooved opposing arm which extend downwardly, with said grooved opposing arms spaced from each other sufficiently to provide an open space within said arms that allows said discs to pass through an open space as said transporter moves along said magazine;
- moving said grooved opposing arms to a low position below a mid-portion of the discs to be engaged;
- while in the low position moving said grooved opposing arms along said magazine to a selected disc to be played;